

Shading Key:

 	52 week high (green = 1), low (red = 0) or shaded in-between
 	2 standard deviation move up (5%)
 	1 standard deviation move up (33%)
 	1 standard deviation move down (33%)
 	2 standard deviation move down (5%)

These estimates are based upon the last 256 daily moves of each instrument

	Closing prices 15-Nov-22	52 wk	Movement for the period				Q3 2022	Q2 2022	2021	2020	2019
			Day	Week	Month	YTD					
Interest Rates											
Central Bank Bills											
Change to today's price											
from closing prices of prior period											
C-bill auctions on Wednesday; reported Thursday/Friday	1.95%		0.00%	0.04%	0.11%	0.66%	0.65%	-0.06%	1.29%	1.33%	1.39%
60 days	2.43%		0.00%	0.09%	0.16%	0.44%	0.40%	-0.11%	1.99%	2.07%	2.30%
90 days	2.69%	0.00	0.00%	0.06%	0.16%	0.74%	0.43%	-0.20%	1.95%	2.04%	2.50%
182 days	4.55%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.55%	4.55%	4.55%
Treasury Bills											
Tbill auctions are irregular Wednesdays	2.00%	0.27	0.00%	0.00%	0.79%	-2.29%	0.06%	-1.12%	4.29%	4.41%	4.68%
182 days	2.63%	0.00	0.00%	-0.01%	-0.02%	-3.32%	0.54%	-1.78%	5.95%	6.04%	6.04%
273 days	4.26%		0.00%	0.04%	0.20%	-2.78%	1.44%	-2.50%	7.04%	7.20%	7.08%
364 days											
Government Inscribed Stock											
For interest rates, rate at end of each respective year reported.											
GIS 2Y 2022-24	4.20%		0.00%	0.00%	-0.17%	-4.30%			8.50%	8.04%	7.90%
GIS 4Y 2022-26	4.97%		0.00%	0.00%	-0.11%	-4.87%			-	9.84%	-
GIS 5Y 2022-27	5.44%		0.00%	0.00%	0.18%	-4.26%			9.70%	-	-
GIS 7Y 2022-29	5.93%		0.00%	0.00%	0.02%	-3.87%			-	-	-
GIS 8Y 2022-30	6.18%		0.00%	0.00%	0.00%	6.18%			9.90%	-	-
GIS 9Y 2022-31	6.35%		0.00%	0.00%	-0.05%	-3.55%			9.90%	11.82%	10.55%
GIS 10Y 2022-32	6.28%		0.00%	0.00%	-0.07%	-3.62%			9.90%	-	-
GIS 10Y 2022-32	3.00%	0.00	0.00%	0.00%	0.00%	0.00%			3.00%	3.00%	5.50%
Kina Facility Rate											
Ten year Government Bond yields											
United States	3.77%	0.84	-0.08%	-0.35%	-0.24%	2.26%	0.82%	0.67%	1.51%	0.91%	1.92%
United Kingdom	3.30%	0.68	-0.07%	-0.26%	-0.66%	2.32%	1.86%	0.62%	0.97%	0.20%	0.82%
Australia	3.76%	0.83	-0.01%	-0.28%	-0.16%	2.09%	0.23%	0.82%	1.67%	0.97%	1.37%
New Zealand	4.24%	0.81	-0.07%	-0.42%	-0.36%	1.85%	0.44%	0.64%	2.39%	0.99%	1.65%
France	2.60%	0.88	-0.06%	-0.20%	-0.26%	2.40%	0.80%	0.94%	0.20%	-0.34%	0.12%
Japan	0.25%	0.94	0.00%	-0.01%	-0.01%	0.17%	0.01%	0.01%	0.07%	0.02%	-0.01%
Australia	2.85%		0.00%	0.00%	0.25%	2.75%	1.50%	0.75%	0.10%	0.10%	0.75%
RBA Cash Rate	5.50%								4.60%	3.10%	4.00%
Latest 12 mth % change											
PNG CPI Index											
Currencies											
Percentage changes											
PGK/USD	0.2840	0.00	0.00%	0.00%	0.00%	-0.35%	0.00%	0.00%	0.00%	-2.90%	-1.18%
PGK/AUD	0.4232	0.61	-0.59%	-3.80%	-6.00%	7.74%	5.99%	8.56%	6.19%	-11.68%	-0.48%
PGK/GBP	0.2412	0.44	-0.12%	-2.39%	-3.60%	14.20%	9.20%	8.09%	1.00%	-6.57%	-4.40%
PGK/NZD	0.4642	0.56	-0.60%	-3.21%	-7.03%	11.21%	8.54%	11.85%	5.78%	-9.52%	-1.45%
PGK/JPY	39.870	0.73	0.71%	-4.27%	-5.72%	21.52%	5.96%	11.97%	11.64%	-7.87%	-2.68%
USD/AUD	0.6711	0.34	0.58%	3.93%	6.37%	-7.52%	-5.64%	-7.89%	-5.83%	9.94%	-0.71%
USD/JPY	140.360	0.73	0.70%	-4.29%	-5.74%	21.92%	5.98%	11.96%	11.63%	-5.12%	-1.53%
USD/EUR	1.0331	0.40	0.23%	3.24%	4.86%	-8.65%	-6.04%	-6.38%	-8.00%	9.68%	-1.94%
USD/GBP	1.1774	0.38	0.13%	2.44%	3.71%	-12.75%	-8.40%	-7.49%	-0.98%	3.90%	3.37%
Equity Indices											
Papua New Guinea											
Percentage changes											
KSI Index	6,280.24	1.00	0.00%	0.00%	0.01%	7.14%	0.25%	1.51%	-3.09%	-3.42%	21.05%
KSI Home Index	15,593.11	0.85	0.00%	0.00%	1.84%	8.35%	-0.29%	10.08%	8.11%	1.50%	14.95%
Australia											
All Ordinaries	7,345.41	0.56	-0.07%	2.73%	5.29%	-5.58%	-1.01%	-13.39%	13.55%	0.71%	19.14%
S&P/ASX 100	5,989.06	0.65	-0.05%	2.51%	5.19%	-2.59%	-1.32%	-11.65%	13.28%	-2.06%	18.88%
S&P/ASX 20	4,040.00	0.68	0.11%	2.90%	5.57%	-0.45%	-1.83%	-11.32%	12.14%	-1.49%	15.34%
S&P/ASX 50	6,962.30	0.62	0.10%	2.74%	5.41%	-1.84%	-2.10%	-11.12%	12.37%	-4.86%	19.07%
S&P/ASX 50 Accumulation	86,543.40	0.81	0.25%	2.89%	5.78%	2.81%	-0.12%	-10.55%	17.00%	-1.94%	24.43%
S&P/ASX Midcap 50	9,128.30	0.58	-0.96%	1.13%	3.84%	-6.53%	3.88%	-14.95%	18.46%	14.48%	17.68%
S&P/ASX Small Ordinaries	2,891.70	0.30	-0.17%	3.70%	6.40%	-18.07%	-1.45%	-20.79%	14.24%	6.62%	17.88%
S&P/ASX 200	7,141.63	0.61	-0.07%	2.63%	5.35%	-4.07%	-1.43%	-12.42%	13.02%	-1.45%	18.38%
S&P/ASX 200 Accumulation	86,167.33	0.78	0.05%	2.75%	5.66%	0.06%	0.39%	-11.90%	17.23%	1.40%	23.40%
S&P/ASX 300	7,115.63	0.59	-0.06%	2.64%	5.32%	-4.54%	-1.34%	-12.73%	13.38%	-1.10%	18.77%
S&P/ASX 200 Energy	11,538.80	0.90	-0.89%	-1.47%	6.56%	46.05%	2.29%	1.45%	-1.97%	-29.93%	18.24%
S&P/ASX 200 Materials	17,359.90	0.61	-1.01%	7.47%	10.23%	3.70%	-2.85%	-16.19%	6.84%	13.37%	22.09%
S&P/ASX 200 Industrials	6,287.20	0.51	0.45%	-0.44%	3.40%	-5.39%	-6.34%	-2.18%	11.24%	-14.10%	22.62%
S&P/ASX 200 Consumer Discretionary	2,926.30	0.33	0.19%	1.65%	6.24%	-17.09%	-1.96%	-15.08%	21.31%	8.63%	27.23%
S&P/ASX 200 Consumer Staples	12,507.00	0.24	0.10%	0.72%	1.22%	-7.66%	-4.33%	-3.40%	7.13%	3.57%	17.98%
S&P/ASX 200 Healthcare	42,153.90	0.46	1.41%	3.46%	5.04%	-6.70%	2.64%	-1.93%	7.98%	2.97%	41.23%
S&P/ASX 200 Financials	6,500.70	0.68	0.29%	0.62%	2.38%	-0.55%	0.66%	-14.87%	20.20%	-9.00%	7.39%
S&P/ASX 200 Information Technology	1,455.00	0.17	1.68%	2.87%	-0.04%	-31.94%	2.53%	-27.19%	-2.79%	56.35%	31.81%
S&P/ASX 200 Telecommunication Services	1,415.90	0.26	0.45%	-0.18%	2.30%	-13.13%	-0.87%	-10.12%	28.46%	0.91%	22.31%
S&P/ASX 200 Utilities	8,181.60	0.91	-0.42%	11.47%	20.62%	22.24%	-13.62%	0.61%	4.56%	-21.52%	10.09%
S&P/ASX 200 A-REIT	1,345.20	0.23	-1.47%	2.37%	6.46%	-23.33%	-7.53%	-18.85%	21.61%	-7.99%	14.01%
S&P/ASX 200 Financial-x-A-REIT	7,250.50	0.68	0.29%	0.62%	2.38%	-0.55%	0.66%	-14.87%	20.20%	-8.99%	7.39%
North American											
DJIA	33,592.92	0.60	0.17%	1.30%	10.05%	-7.56%	-6.66%	-11.25%	18.73%	7.25%	22.34%
S&P 500	3,991.73	0.34	0.87%	4.27%	7.31%	-16.25%	-5.28%	-16.45%	26.89%	16.26%	28.88%
NASDAQ	11,358.41	0.18	1.45%	6.99%	5.44%	-27.40%	-4.11%	-22.44%	21.39%	43.64%	35.23%
Toronto S&P/TSX	19,994.78	0.46	0.37%	1.70%	6.37%	-5.79%	-2.21%	-13.84%	21.74%	2.17%	19.13%
Europe											
FTSE	7,369.44	0.64	-0.21%	0.87%	6.24%	-0.20%	-3.84%	-4.61%	14.30%	-14.34%	12.10%
DAX	14,378.51	0.56	0.46%	5.04%	12.63%	-9.48%	-5.24%	-11.31%	15.79%	3.55%	25.48%
CAC 40	6,641.66	0.57	0.49%	3.11%	9.47%	-7.15%	-2.71%	-11.07%	28.85%	-7.14%	26.37%
Asia											
Nikkei	27,990.17	0.65	0.10%	0.42%	3.07%	-2.78%	-1.73%	-5.13%	4.91%	16.01%	18.20%
Hang Seng	18,343.12	0.34	4.11%	10.79%	8.45%	-21.60%	-21.21%	-0.62%	-14.08%	-3.40%	9.07%
Shanghai	3,134.08	0.31	1.64%	2.27%	1.72%	-13.89%	-11.01%	4.50%	4.80%	13.87%	22.30%
Sensex	61,872.99	1.00	0.40%	1.12%	4.94%	6.21%	8.31%	-9.48%	21.99%	15.75%	14.38%

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Shading Key:

 	52 week high (green = 1), low (red = 0) or shaded in-between
 %	2 standard deviation move up (5%)
 %	1 standard deviation move up (33%)
 %	1 standard deviation move down (33%)
 %	2 standard deviation move down (5%)

These estimates are based upon the last 256 daily moves of each instrument

		15-Nov-22	52 wk	Movement for the period				Q3 2022	Q2 2022	2021	2020	2019	
				Day	Week	Month	YTD						
Indices													
MSCI World USD Index		2,678.23	0.35	0.16%	5.71%	8.97%	-17.13%	-6.58%	-16.60%	20.14%	14.06%	25.19%	
MSCI World Net TR USD Index		8,203.14	0.37	0.18%	4.87%	9.07%	-15.91%	-7.21%	-15.26%	21.82%	15.90%	27.67%	
MSCI ACWI-ex-Australia TR AUD Index		13,669.62	0.44	-0.94%	0.99%	2.22%	-9.99%	-0.72%	-7.44%	29.58%	5.73%	27.97%	
MSCI ACWI Net TR USD Index		325.29	0.37	0.44%	5.90%	9.10%	-16.39%	-7.85%	-14.72%	18.54%	16.25%	26.60%	
MSCI ACWI Minimum Volatility USD		2,100.87	0.35	0.48%	2.32%	6.04%	-12.72%	-6.69%	-9.77%	11.95%	0.56%	18.50%	
MSCI EM Asia Net TR USD Index		562.59	0.32	3.56%	9.50%	11.03%	-21.67%	-14.96%	-8.32%	-5.08%	28.38%	19.24%	
MSCI EM Net TR USD Index		486.41	0.30	2.67%	7.07%	9.33%	-20.03%	-12.65%	-10.36%	-2.54%	18.31%	18.42%	
VIX Volatility S&P500		24.54	0.40	3.41%	-3.92%	-19.54%	42.51%	10.14%	39.64%	-24.31%	65.09%	-45.79%	
Commodities													
Light Crude WTI Futures US\$/bbl		86.92	0.35	1.22%	-2.24%	4.95%	14.91%	-24.84%	5.46%	55.89%	-20.54%	34.46%	
Brent Crude US\$/bbl		93.78	0.41	1.36%	-1.63%	4.17%	19.95%	-23.39%	6.39%	50.93%	-21.52%	22.68%	
Gold US\$/oz		1,776.80	0.35	-0.01%	3.54%	7.31%	-3.00%	-7.49%	-7.51%	-3.34%	24.42%	18.87%	
Silver US\$/oz		21.52	0.42	-2.69%	0.07%	15.69%	-8.10%	-6.45%	-19.02%	-11.35%	47.38%	15.32%	
Copper US\$/lb		3.82	0.34	-0.21%	3.72%	13.61%	-14.57%	-8.02%	-21.91%	27.05%	25.81%	6.31%	
Iron Ore US\$/mt		89.43	0.15	0.00%	6.86%	-4.16%	-20.61%	-18.16%	-16.56%	-27.05%	81.97%	20.45%	
Malaysian Palm Oil* RM/tn		3,987	0.15	0.00%	-6.28%	1.37%	-22.72%	-34.61%	-20.39%	32.59%	27.95%	51.75%	
LNG *Jap/Korea US\$/mmBtu		27.40	0.51	0.61%	-1.73%	-7.72%	-10.16%	0.17%	9.10%	113.25%	169.81%	-41.08%	
ICCO Cocoa US\$/mt		2,500	0.51	0.12%	-1.46%	8.46%	-0.79%	2.75%	-13.55%	-3.19%	2.48%	5.13%	
ICO Coffee US cents/lb		157	0.00	-5.69%	-5.83%	-19.66%	-30.67%	-5.16%	3.18%	76.30%	-1.12%	27.34%	
Equities													
Percentage changes													
Domestic													
PGK		Arbitrage	PNGX										
Bank South Pacific		11.48	12.41	0.59	0.00%	0.00%	0.00%	1.31%	0.08%	2.90%	2.08%	1.87%	14.81%
Credit Corporation			1.90	1.00	0.00%	0.00%	2.70%	13.10%	0.00%	15.63%	-1.18%	6.25%	18.52%
City Pharmacy			0.95	0.06	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	90.00%	-38.27%	24.62%
Kina Asset Management Limited			0.95		0.00%	0.00%	0.00%	-4.04%	-5.00%	0.00%	10.00%	-5.26%	0.00%
Kina Securities Limited		2.03	2.90	0.40	0.00%	0.00%	0.00%	-1.69%	-3.33%	0.00%	-1.67%	-10.98%	27.17%
Steamship Trading Company		24.81	35.46		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Santos Limited		17.56	19.10	1.00	0.00%	0.00%	0.00%		0.53%	2.70%			
Australia													
A2 Milk Company Limited			5.87	0.81	-0.68%	2.44%	9.93%	7.51%	23.01%	-15.90%	-52.31%	-19.93%	38.57%
ANZ Banking Group Limited			24.23	0.40	-0.16%	-0.70%	-5.54%	-11.92%	3.50%	-20.18%	21.19%	-7.84%	0.70%
BSP Financial Group			4.86	0.43	0.83%	0.62%	2.10%	13.82%	1.01%	3.13%	-17.88%		
BHP Billiton Limited			43.94	0.46	-0.16%	8.90%	10.88%	5.88%	-6.62%	-20.29%	-2.19%	9.02%	13.70%
Boral Limited			2.91	0.10	1.04%	4.68%	14.12%	-52.30%	3.09%	-25.14%	23.23%	10.49%	-9.31%
Bougainville Copper Limited			0.31	0.08	1.64%	14.81%	14.81%	1.64%	-15.15%	-56.00%	5.17%	-10.77%	103.13%
Bank of Queensland			7.27	0.36	-0.14%	-0.41%	-5.58%	-10.14%	-2.40%	-23.16%	4.52%	6.76%	-25.26%
Brambles Limited			11.29	0.52	0.27%	-2.59%	-2.59%	6.21%	6.54%	8.07%	0.28%	-9.56%	15.47%
Commonwealth Bank of Australia			106.48	0.91	1.31%	1.91%	6.71%	5.43%	0.35%	-14.55%	23.01%	2.77%	10.37%
CSL			290.75	0.64	1.47%	3.58%	5.46%	0.01%	5.93%	0.34%	2.66%	2.69%	48.93%
Fortescue Mining			19.40	0.58	-0.77%	16.66%	13.65%	0.99%	-4.05%	-15.15%	-18.01%	119.18%	155.13%
Horizon Oil Ltd			0.14	0.66	0.00%	-3.57%	3.85%	46.74%	9.26%	8.00%	48.39%	-48.33%	20.00%
Kina Securities Ltd			0.86	0.44	-0.58%	-1.15%	0.58%	0.58%	5.59%	-5.85%	-5.00%	-39.60%	56.84%
Kina Petroleum Ltd			0.06		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-1.72%
Macquarie Group Ltd			179.63	0.46	1.07%	5.83%	10.66%	-12.55%	-7.15%	-19.07%	48.32%	0.46%	26.88%
Mirvac Group			2.11	0.21	-1.40%	2.93%	7.65%	-27.49%	-1.52%	-20.68%	10.23%	-16.98%	41.96%
National Australia Bank			30.49	0.60	-2.46%	-4.57%	-2.37%	5.72%	5.18%	-15.33%	27.61%	-8.24%	2.33%
Newcrest Mining Limited			19.47	0.28	-0.21%	7.21%	9.75%	-20.47%	-19.00%	-21.88%	-5.04%	-14.78%	38.76%
Origin Energy Ltd			7.49	0.89	-0.93%	29.81%	30.94%	42.94%	-9.77%	-8.03%	10.08%	-43.67%	30.60%
Pilbara Minerals Ltd			4.83	0.81	-8.70%	-11.05%	0.63%	50.94%	99.13%	-28.44%	267.82%	210.71%	-55.20%
Qbe Insurance Group Ltd			12.28	0.77	1.91%	-4.58%	2.76%	8.19%	-5.10%	5.65%	33.06%	-33.77%	27.52%
Rio Tinto Limited			106.42	0.46	0.40%	10.45%	12.89%	6.30%	-9.07%	-13.78%	-12.05%	13.38%	27.95%
ResMed Inc			33.46	0.58	0.48%	2.73%	-2.59%	-6.48%	10.23%	-5.34%	31.40%	24.34%	37.56%
Santos Limited			7.43	0.50	-0.27%	-1.85%	-0.67%	17.75%	-4.45%	-4.13%	0.64%	-23.35%	49.27%
Steamship Trading Company			10.50	0.38	0.00%	0.00%	0.00%	5.00%	-15.83%	18.93%	1.52%	-21.20%	-33.16%
Suncorp Metway Limited			11.88	0.84	0.17%	1.02%	11.86%	7.32%	-8.65%	-1.26%	13.66%	-24.85%	2.61%
Sydney Airport			8.72	1.00	0.00%	0.00%	0.00%	0.46%	0.00%	0.00%	35.41%	-25.98%	28.68%
Transurban Group			13.57	0.55	0.37%	-0.44%	8.13%	-1.81%	-14.19%	6.13%	1.17%	-8.38%	27.98%
Telstra Corporation Limited			3.88	0.30	0.52%	-1.52%	0.78%	-7.18%	0.00%	-2.78%	40.27%	-15.82%	24.21%
Treasury Wine Estates Limited			13.38	0.92	1.21%	4.78%	3.24%	8.08%	10.75%	-1.99%	31.70%	-42.12%	9.73%
Westpac Banking Corporation			23.96	0.87	0.46%	1.27%	-0.08%	12.22%	5.85%	-19.55%	10.22%	-20.06%	-3.23%
Worley Limited			15.01	0.93	-0.40%	0.87%	11.10%	41.20%	-10.60%	10.30%	-7.48%	-24.95%	34.06%
Woolworths Limited			33.78	0.20	-0.06%	1.41%	1.26%	-11.13%	-4.63%	-4.46%	-3.31%	8.71%	22.91%
International													
iShare MSCI All Asia ex Japan		USD \$	65.11	0.32	3.02%	8.38%	12.03%	-21.28%	-15.24%	-7.81%	-7.74%	22.19%	15.56%
Blackrock Int Equity Fund*		AUD \$	19.30	0.28	-0.93%	1.00%	2.24%	-14.03%	-4.75%	-8.50%	24.76%	-0.61%	23.52%
Blackrock Australian Equity Fund*		AUD \$	1.76	0.45	-0.14%	3.05%	7.43%	-9.66%	-6.55%	-10.96%	11.82%	-2.28%	19.10%
Vanguard International Share*		AUD \$	2.67	0.32	-0.94%	1.00%	2.22%	-13.69%	-2.83%	-8.11%	23.54%	-0.10%	22.72%
Vanguard FTSE World exUS		USD \$	50.55	0.34	0.92%	5.40%	11.42%	-17.51%	-11.21%	-13.25%	5.00%	8.58%	17.92%
Vanguard FTSE Europe		USD \$	55.07	0.40	0.42%	5.72%	13.50%	-19.30%	-12.63%	-15.19%	13.28%	2.80%	20.53%
iShares Core MSCI Europe		USD \$	47.03	0.40	0.30%	5.64%	13.35%	-19.14%	-12.06%	-15.81%	13.42%	2.83%	20.66%
iShares Asia 50		USD \$	56.85	0.33	5.01%	12.46%	15.41%	-25.74%	-20.43%	-8.58%	-12.17%	32.08%	19.35%
iShares MSCI Japan		USD \$	54.55	0.28	0.66%	5.11%	11.83%	-18.53%	-7.53%	-14.25%	-0.89%	14.04%	16.87%
Acadian Global Managed Volatility Equity Fund			1.55	0.19	-0.28%	-1.42%	0.28%	-9.52%	-6.92%	-2.24%	10.44%	-11.46%	8.12%
Lazard Global Managed Volatility Fund - Australia*			1.00	0.11	-0.52%	-2.19%	-0.77%	-15.89%	-16.44%	-0.19%	19.66%	-22.67%	14.95%
Robeco Emerging Conservative Equity Fund - Australia			1.31	0.14	0.38%	-0.45%	-0.76%	-10.95%	-5.34%	-2.96%	13.49%	-15.41%	10.42%

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